

Atty. Docket No.: NLMLP109

PATENT

IN THE UNITED STATES PATENT OFFICE

**In Re Patent Application of:**

First Named Inventor: Nataraj, Bindiganavale S.

Application No.: 10/000,122

Filed: 10/31/2001

Title: CONTENT ADDRESSABLE MEMORY WITH  
PROGRAMMABLE WORD WIDTH AND  
PROGRAMMABLE PRIORITY

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Examiner: Elmore, Reba I.

Art Unit: 2187

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria VA 22313-1450 on January 10, 2005

Charles E. Shemwell

(Name of Person Mailing Correspondence)

Charles E. Shemwell 1/10/2005  
Signature Date

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97

Sir:

Enclosed is an Information Disclosure Citation Form 1449/PTO together with a copy of each reference cited therein, excluding U.S. Patents and Published U.S. Patent Applications. It is respectfully requested that the cited references be considered and that the enclosed copy of the Form 1449/PTO be initialed by the Examiner to indicate such consideration and a copy thereof returned to applicant.

This Information Disclosure Statement is being submitted pursuant to 37 CFR 1.97(c). A check to cover the \$180.00 fee under 1.17(p) is enclosed.

Pursuant to 37 CFR 1.97(h), the submission of this Information Disclosure Statement is not to be construed as an admission that the information cited in this statement is material to patentability.

The Commissioner is hereby authorized to charge any fees which may be required in connection with this submission to Deposit Account No. 501914.

Respectfully submitted,

SHEMWELL GREGORY & COURTNEY LLP

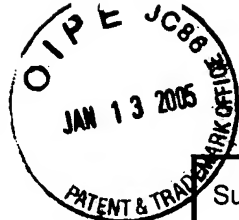
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Charles E. Shemwell, Reg. No. 40,171  
Tel. 408-236-6645

01/18/2005 TL0011 00000004 10000122

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Date January 10, 2005



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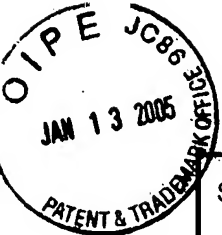
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<b>Application No.</b>	10/000,122
<b>Filed</b>	10/31/2001
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U.S. Patent Documents					
Examiner Initials*	US Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication	Relevant Pages, Columns, Lines
	Number	Kind			
	2001/0053150	A1	Clear et al.	Dec., 2001	
	3602899		Lindquist et al.	Aug., 1971	
	3675211		Raviv	Jul., 1972	
	3685020		Meade	Aug., 1972	
	3868642		Sachs	Feb., 1975	
	3949368		West	Apr., 1976	
	4030077		Florence	Jun., 1977	
	4112502		Schueneman	Sep., 1978	
	4159538		Motsch	Jun., 1979	
	4464732		Clark	Aug., 1984	
	4472805		Wacyk et al.	Sep., 1984	
	4523301		Kadota	Jun., 1985	
	4611280		Linderman	Sep., 1986	
	4646271		Uchiyama	Feb., 1987	
	4747080		Yamada	May, 1988	
	4758982		Price	Jul., 1988	
	4780845		Threewitt	Oct., 1988	
	4785398		Joyce et al.	Nov., 1988	
	4791606		Threewitt et al.	Dec., 1988	
	4888731		Chuang et al.	Dec., 1989	
	4896261		Nolan	Jan., 1990	
	4903234		Sakaraba et al.	Feb., 1990	
	4959811		Szczepanek	Sep., 1990	
	4975873		Nakabayashi et al.	Dec., 1990	

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	4991134		Ivsin	Feb., 1991	
	5010516		Oates	Apr., 1991	
	5014195		Farrell et al.	May, 1991	
	5036486		Noguchi et al.	Jul., 1991	
	5051948		Watabe et al.	Sep., 1991	
	5068822		Lawrence	Nov., 1991	
	5107501		Zorian	Apr., 1992	
	5111427		Kobayashi et al.	May, 1992	
	5226005		Lee et al.	Jul., 1993	
	5239642		Gutierrez et al.	Aug., 1993	
	5247688		Ishigami	Sep., 1993	
	5265100		McClure et al.	Nov., 1993	
	5317756		Komatsu et al.	May, 1994	
	5319590		Montoye	Jun., 1994	
	5319763		Ho et al.	Jun., 1994	
	5325501		Carlstedt	Jun., 1994	
	5339268		Machida	Aug., 1994	
	5351208		Jiang	Sept., 1994	
	5386413		McAuley et al.	Jan., 1995	
	5388066		Hamamoto et al.	Feb., 1995	
	5388189		Kung	Feb., 1995	
	5396449		Atallah et al.	Mar., 1995	
	5406508		Hayashibara	Apr., 1995	
	5414704		Spinney	May, 1995	

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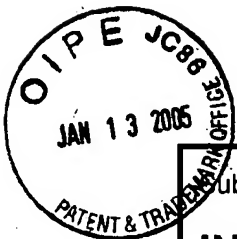
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	5422838		Lin	Jun., 1995	
	5423015		Chung	Jun., 1995	
	5440709		Edgar	Aug., 1995	
	5440753		Hou et al.	Aug., 1995	
	5446685		Holst	Aug., 1995	
	5448733		Satoh et al.	Sep., 1995	
	5454094		Montove	Sep., 1995	
	5455576		Clark, II et al.	Oct., 1995	
	5465335		Anderson	Nov., 1995	
	5467319		Nusinov et al.	Nov., 1995	
	5469161		Bezek	Nov., 1995	
	5490102		Jubran	Feb., 1996	
	5491703		Barnaby et al.	Feb., 1996	
	5513134		Cooperman et al.	Apr., 1996	
	5515370		Rau	May, 1996	
	5517441		Dietz et al.	May, 1996	
	5524231		Brown	Jun., 1996	
	5576985		Holtz	Nov., 1996	
	5592432		Vishlitzky et al.	Jan., 1997	
	5598115		Holst	Jan., 1997	
	5613136		Casavant et al.	Mar., 1997	
	5615135		Waclawsky et al.	Mar., 1997	
	5619676		Fukuda et al.	Apr., 1997	
	5621677		Jones	Apr., 1997	

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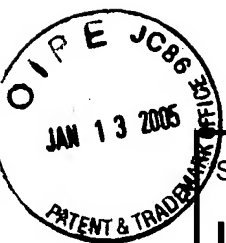
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	5642114		Komoto	Jun., 1997	-
	5646878		Samra	Jul., 1997	
	5699288		Kim et al.	Dec., 1997	
	5717901		Sung et al.	Feb., 1998	
	5726942		Yoneda et al.	Mar., 1998	
	5740098		Adams et al.	Apr., 1998	
	5745488		Thompson et al.	Apr., 1998	
	5752069		Roberts et al.	May, 1998	
	5818873		Wall et al.	Oct., 1998	
	5828324		Clark, II	Oct., 1998	
	5828593		Schultz et al.	Oct., 1998	
	5841874		Kempke et al.	Nov., 1998	
	58939931		Peng et al.	Apr., 1999	
	5930359		Kempke et al.	Jul., 1999	
	5933363		Shindo	Aug., 1999	
	5940852		Rangasayee	Aug., 1999	
	5949696		Threewitt	Sep., 1999	
	5959734		Matano	Sep., 1999	
	5978885		Clark, II	Nov., 1999	
	6009504		Krick	Dec., 1999	
	6014732		Naffziger	Jan., 2000	
	6044005		Gibson et al.	Mar., 2000	
	6065064		Satoh et al.	May, 2000	
	6069573		Clark II, et al.	May, 2000	

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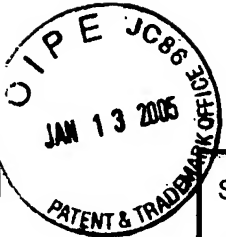
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	Number	Kind			
	6108227		Voelkel	Aug., 2000	
	6108747		Kaganoi	Aug., 2000	
	6115365		Newberg et al.	Sep., 2000	
	6122702		Pelagalli et al.	Sep., 2000	
	6125049		Nataraj	Sep., 2000	
	6147891		Nataraj	Nov., 2000	
	6148364		Srinivasan et al.	Nov., 2000	
	6154384		Nataraj et al.	Nov., 2000	
	6166938		Wong	Dec., 2000	
	6166939		Nataraj et al.	Dec., 2000	
	6175513		Khanna.	Jan., 2001	
	6175514		Henderson et al.	Jan., 2001	
	6191970		Pereira	Feb., 2001	
	6195701		Kaiserswerth et al.	Feb., 2001	
	6199140		Srinivasan et al.	Mar., 2001	
	6219748		Srinivasan et al.	Apr., 2001	
	6226710		Melchior	May, 2001	
	6229742		Srinivasan et al.	May., 2001	
	6237061		Srinivasan et al.	Jan., 1999	
	6240000		Sywyk et al.	May., 2001	
	6240485		Srinivasan et al.	May., 2001	
	6243280		Wong et al.	Jun., 2001	
	6243281		Pereira	Jun., 2001	
	6249467		Pereira et al.	Jun., 2001	

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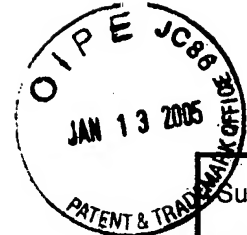


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	6275426		Srinivasan et al.	Aug., 2001	
	6289414		Feldmeier et al.	Oct., 1998	
	6310880		Waller	Oct., 2001	
	6317350		Pereira et al.	Nov., 2001	
	6353873		Melchior	Mar., 2002	
	6362992		Cheng	Mar., 2002	
	6362993		Henderson et al.	Mar., 2002	
	6370613		Diede et al.	Apr., 2002	
	6374326		Kansal et al.	Apr., 2002	
	6381673		Srinivasan et al.	Apr., 2002	
	6389506		Ross et al.	Aug, 1998	
	6393514		Khanna et al.	May., 2002	
	6418042		Srinivasan et al.	Jul., 2002	
	6430074		Srinivasan	Aug., 2002	
	6438674		Perloff	Aug., 2002	
	6445628		Pereira et al.	Sep., 2002	
	6460112		Srinivasan et al.	Oct., 2002	
	6467019		Washburn	Oct., 2002	
	6487131		Clark et al.	Nov., 2002	
	6493791		Akkary	Dec., 2002	
	6493793		Pereira et al.	Dec., 2002	
	6499081		Nataraj et al.	Dec., 2002	
	6502163		Ramankutty	Dec., 2002	
	6539455		Khanna et al.	Mar., 2003	

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	6542391		Pereira et al.	Apr., 2003	
	6564289		Srinivasan et al.	May., 2003	
	6567340		Nataraj et al.	May, 2003	
	6574702		Khanna et al.	Jun., 2003	
	6591331		Khanna	Jul., 2003	
	6597690		Mehta et al.	Jul., 2003	
	6606681		Uzun	Aug., 2003	
	6678786		Srinivasan et al.	Jan., 2004	
	6687785		Pereira	Feb., 2004	
	6697276		Pereira et al.	Feb., 2004	
	6697911		Srinivasan et al.	Feb., 2004	
	6711049		Hsu et al.	Mar., 2004	

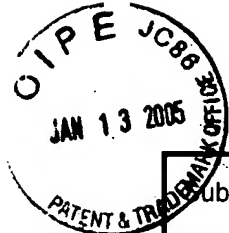
**Foreign Patent Documents**

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	Number	Kind				
	EP 0267612	A2		May, 1988		
	EP 0660332	A1		Jun., 1995		
	EP 0774758	A2		May, 1997		
	EP 0858077			Aug., 1998		
	EP 0918335			May., 1999		
	EP 0944093	A1		Sep., 1999		
	EP 1096504			May., 2001		
	JP 07-021785			Jan., 1995		
	JP 08-167295			Jun., 1996		

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	JP 08-273376			Jan., 1996		
	JP 09-279525			Sep., 1997		
	WO 99/31581			Jun., 1999		

Non Patent Literature Documents		
Examiner Initials	Name of Author, Title of Item, Date, Page(s), Volume-Issue Number(s), Publisher, City and/or Country where Published	Trans- lation
	Gupta et al., "Packet Classifications on Multiple Fields," SIGCOMM (September 2, 1999) 14 pages.	
	McAuley et al., "A Self-Testing Reconfiguration CAM", IEEE Journal of Solid-State Circuits, Vol.26, No. 3, March 1991, pp.257-261	
	Landrock et al., "Association Storage Module", IBM Technical Disclosure Bulletin, Vol. 25, No. 5, October 1992, pp. 2341-2342.	
	Lakshman et al., "High-Speed Policy-Based Packet Forwarding Using Efficient Multi-Dimensional Range Matching", SIGCOMM, 1988, pp. 203-214.	
	KSLI KE5B064H Series Address Processor Ver. 1.0.1 (believed to be published late 1995 or early 1996).	
	KSLI KE5B064A1 Address Processor Ver. 2.0.2 Preliminary (believed to be published late 1995 or early 1996).	
	Kadota et al., "An 8-kbit Content-Addressable and Reentrant Memory", IEEE Journal of Solid-State Circuits, Vol. SC-20, No. 5, October 1985, pp. 951-956.	

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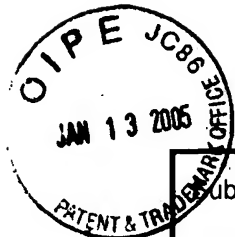
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	Advanced Micro Devices, "Final Am99C10A 256 x 48 Content Addressable Memory" Publication No. 08125, Rev. G, December 1992, pp 1-21.	
	Huang et al., "A Fast IP-Routing Lookup Scheme for Gigabit Switching Routers," IEEE, 1999, pp. 1429-1436	
	Music Semiconductors, "MU9C1480 LANCAM Handbook" November 1994.	
	Ghose et al., "Response Pipelined CAM Chips: The First Generation and Beyond," 7th International Conference on VLSI Design, January 1994, pp. 365-368.	
	GEC Plessey Semiconductors, "P2800 Multi-Port Content Addressable Memory", Functional Product Specification GPS-FPS-2800-12, January 1996.	
	GEC Plessey Semiconductors, "P2800 2K x 64 Multi-Port Content Addressable Memory", Preliminary Information, February 1997, pp. 1-15.	
	Cisco Systems, Inc., "Policy Based Routing", 1996 pp. 1-7.	
	Akata et al., "A Scheduling Content-Addressable Memory for ATM Space Division Switch Control," IEEE International Solid-State Circuits Conference, Feb. 1991, New York	
	Bremner-Barr et al., "Routing with a Clue", Computer Communications Review, ACM Sigcomm '99 Conference, 8/30/99-9/3/99, p.203-213.	

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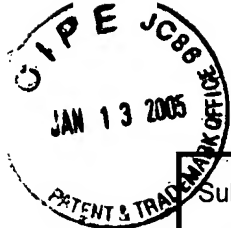
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	Jones et al., "A 9-kbit Association Memory for High Speed Parallel Processing Applications", IEEE Journal of Solid-State Circuits, Vol. 23, No. 2, April 1988, pp. 543-548.	
	Ramirez-Chavez, "Encoding Don't Cares in Static and Dynamic Content-Addressable Memories", Transaction Briefs, IEEE transactions on Circuits and Systems-II: Analog and Digital Processing, Vol. 39, No 8, August 1992, pp. 575-578.	
	Wang et al., "Realization of Bidirection Association Memory Using a Pseudo-Parallel Searching Approach," 1995 IEEE International Conference on Neural Networks, Vol. 3, pp. 1502-1507, December 1995.	
	Tamaru, "The Trend of Functional Memory Development", INVITED PAPER Special Issue on LSI Memories IEICE Trans, Electron, Vol. E76-C, No. 11, Nov. 1993, pp. 1545-1554.	
	Stardust.com, "WhitePaper -- Introduction to QoS policies," 1999, pp. 1-22.	
	Srinivasan et al., "Packet Classification using Tuple Space Search," SIGCOMM (September 2 1999), 12 pages.	
	Srinivasan et al., "Fast and Scalable Layer Switching" ACM Applications, Technologies, Architectures, and Protocols for Computer Communication, pages(s) 191-202, 1998.	
	Chae et al., "Content-Addressable Memory for VLSI Pattern Inspection," IEEE Journal of Solid-State Circuits, Vol. 23, No. 1, February 1988, pp. 74-78	
	Mosaid Technologies Inc., "The Next Generation of Content Addressable Memories," September 1999, 8 pages.	

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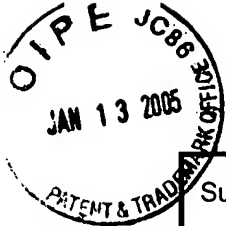
<b>Application No.</b>	10/000,122
<b>Filed</b>	10/31/2001
<b>First Inventor</b>	Nataraj, B.
<b>Art Unit</b>	2187
<b>Examiner</b>	Elmore, Reba I.
<b>Atty. Docket No.</b>	NLMI.P109

**Non Patent Literature Documents**

<b>Examiner Initials</b>	<b>Name of Author, Title of Item, Date, Page(s), Volume-Issue Number(s), Publisher, City and/or Country where Published</b>	<b>Trans- lation</b>
	Robinson, "Patterson Addressable Memory," IEEE Micro, June 1992, pp. 20-30.	
	Motorola Semiconductor Technical Data, "Advance Information 16K X 64 CAM", MCM69C432, January 1996, pp. 4 pages	
	Ogura et al., "A 4-kbit Associative Memory LSI", IEEE Journal of Solid-State Circuits, Vol. SC- 20, No. 6, December 1985, pp.1277-1284.	
	NEC Corporation, "High Speed Address Search Engine," Document No. S1345E3V0PF00 (3rd edition), February 1999, 2 pgs.	
	Music Semiconductors, Advance Information, "MUAA Routing CoProcessor (RCP) Family", (October 1, 1998), Rev. 1b, pp.1-16.	
	Music Semiconductors, "MUAA (TM) CAM Family" Advance Information, February 24, 1998, Rev.O, pp.1-16.	
	Music Semiconductors, "MU9C2480 LANCAM" Preliminary Data Sheet, August 25, 1995, pp.1-24.	
	Music Semiconductors, "MU9C1480 LANCAM" Advance Information, March 22, 1990, 1-11	
	Xiao et al., "Internet QoS: A Big Picture", IEEE Network, March/April 1999, pp. 8-18.	

<b>Examiner Signature</b>		<b>Date Considered</b>	
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\*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw a line through citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.



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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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	Shin et al., "A Special-Purpose Content Addressable Memory Chip for Real-Time Image Processing," IEEE Journal of Solid-State Circuits, Vol. 27, No. 5, May 1992, pp. 737-744	

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